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DERWENT-WEEK: 200282

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TITLE: Auxiliary battery over-discharge avoiding
apparatus of electric vehicle

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PATENT-FAMILY:

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ABSTRACTED-PUB-NO: KR2002044297A

BASIC-ABSTRACT:

NOVELTY - An auxiliary battery over-discharge avoiding apparatus of an electric vehicle is provided to avoid operation failure due to over-discharge by charging the auxiliary battery with a main battery prior to over-discharge.

DETAILED DESCRIPTION - An auxiliary battery over-discharge avoiding apparatus of an electric vehicle comprises a main battery(1), a main contact(2), a converter(3), a charge level monitoring unit(4), a controller(5), a driving motor(6) and an auxiliary battery(7). The contact(2) operates

switching on/off
based on an on/off signal of the controller(5). The converter(3)
includes an
inverter(3-1) for converting a DC power to an AC power to supply to a
driving
motor(6), and a DC/DC converter(3-2) for converting a high DC power
to a low DC
power to supply to the auxiliary battery(7). The charge level
monitoring
unit(4) monitors charge level of the auxiliary battery(7). The
controller(5)
controls on/off operation of the main contact(2) and the DC/DC
converter(3-2).
The auxiliary battery(7) supplies power to an engine controller,
headlights,
wipers and a starting motor.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: AUXILIARY BATTERY DISCHARGE AVOID APPARATUS ELECTRIC
VEHICLE

DERWENT-CLASS: X12 X13 X16 X21

EPI-CODES: X12-J01A; X12-J02; X13-G03X; X16-G02; X16-X; X21-A01F;
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